

Appl. No. 10/506,840  
Amendment and/or Response  
Reply to Office action of 6 April 2006

Page 3 of 10

RECEIVED  
CENTRAL FAX CENTER

JUN 30 2006

**Amendments to the Claims:**

A listing of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR 1.121. This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. (Currently amended) A display device, comprising:

a display screen-(30) for displaying image information, having a predetermined number of luminescent picture elements-(35);

an electron gun-(40) for generating an electron beam-(45) and

an electron beam guide-(10) for receiving the electron beam-(45) at a beam entrance-(14) and guiding ~~said-the~~ electron beam-(45) along a beam path to extraction means for extracting ~~said-the~~ electron beam-(45) from ~~said-the~~ beam guide-(10) towards a predetermined picture element-(35) of the display screen-(30), characterized in that

wherein the electron beam guide-(10) comprises a two-dimensional slalom guide arranged in rows and columns that define an array of cells opposite the picture elements, while said-and

the extraction means are arranged to extract ~~said-the~~ electron beam-(45) from ~~said-the~~ two-dimensional slalom guide.

2. (Currently amended) A ~~The~~ display device ~~as claimed in of~~ claim 1, ~~characterized in that~~ wherein the two-dimensional slalom guide defines a guidance plane in which the electron beam-(45) can be guided, ~~said-the~~ guidance plane being substantially parallel to the display screen-(30).

3. (Currently amended) A ~~The~~ display device ~~as claimed in of~~ claim 2, ~~characterized in that~~ wherein the electron beam guide-(10) is provided with a number of slalom electrodes-(16) extending in a direction substantially perpendicular to the display screen-(30), between a back plate-(11) and a front plate-(12) facing ~~said-the~~ display screen-(30).

**BEST AVAILABLE COPY**

Appl. No. 10/506,840  
Amendment and/or Response  
Reply to Office action of 6 April 2006

Page 4 of 10

4. (Currently amended) A ~~The~~ display device ~~as claimed in~~ of claim 3, ~~characterized in that wherein~~ the back plate (11), the front plate (12), and the display screen (30) are substantially flat.
5. (Currently amended) A ~~The~~ display device ~~as claimed in~~ of claim 3, ~~characterized in that wherein~~ a slalom electrode (16) can be switched between an electron beam repelling state and an electron beam attracting state.
6. (Currently amended) A ~~The~~ display device ~~as claimed in~~ of claim 5, ~~characterized in that wherein~~ the slalom electrodes (16) are arranged in rows and columns defining an array of cells (56), each picture element (35) of the display screen (30) corresponding to a cell (56).
7. (Currently amended) A ~~The~~ display device ~~as claimed in~~ of claim 6, ~~characterized in that wherein~~ the front plate (12) is provided with a beam extraction aperture (18) for a cell (56), and the extraction means comprise an extraction electrode (20, 21) for extracting the electron beam (45) through said ~~the~~ beam extraction aperture (18).
8. (Currently amended) A ~~The~~ display device ~~as claimed in~~ of claim 6, ~~characterized in that wherein~~ the slalom electrodes (16) are arranged in a delta-nabla configuration.
9. (Currently amended) A ~~The~~ display device ~~as claimed in~~ of claim 1, ~~characterized in that wherein~~ the electron gun is arranged to generate two separate electron beams having a mutual distance smaller than a slalom pitch, each of said ~~the~~ two electron beams being guided in a different guiding mode associated with the beam path.

Appl. No. 10/506,840  
Amendment and/or Response  
Reply to Office action of 6 April 2006

Page 5 of 10

10. (Currently amended) A ~~The display device as claimed in~~ of claim 1, ~~characterized in that wherein~~ a plurality of electron guns are provided for generating a plurality of electron beams such that each of ~~said the~~ plurality of electron beams can be received by the electron beam guide at a corresponding beam entrance so as to guide ~~said the~~ plurality of electron beams to the extraction means via substantially different individual beam paths.

11. (Currently amended) A ~~The display device as claimed in~~ of claim 1, ~~characterized in that wherein~~ an average beam path length is substantially the same for all picture elements of the display screen.

12. (Currently amended) A ~~The display device as claimed in~~ of claim 1, ~~characterized in that wherein~~ a picture element comprises a plurality of sub-pixels, and the display device is provided with post-selection means for passing the electron beam extracted from the electron beam guide to any one of the plurality of sub-pixels within the predetermined picture element.

13. (Currently amended) A ~~The display device as claimed in~~ of claim 12, ~~characterized in that wherein~~ each of the picture elements comprises three sub-pixels, ~~said the~~ three sub-pixels corresponding to the colors red, green, and blue, respectively.

14. (New) The display device of claim 10, wherein an average beam path length is substantially the same for all picture elements of the display screen.

**Appl. No. 10/506,840  
Amendment and/or Response  
Reply to Office action of 6 April 2006**

**Page 6 of 10**

**15. (New) A display device, comprising:**

**a display screen that includes a plurality of luminescent picture elements;**

**an electron emitter system that is configured to generate one or more electron beams,**

**an electron beam guide that is configured to:**

**receive the one or more electron beams at one or more beam**

**entrances, and**

**guide the one or more electron beams along one or more beam paths towards a selected picture element of the display screen, and**

**one or more extraction elements that are configured to extract the one or more electron beams from the beam guide in a direction toward the predetermined picture element,**

**wherein the electron beam guide comprises a two-dimensional slalom guide arranged in rows and columns defining an array of cells opposite the picture elements.**

**16. (New) The display device of claim 15, wherein the one or more beam paths provide an average beam path length that is substantially the same for each of the picture elements of the display screen.**

**17. (New) The display device of claim 15, including**

**post-selection elements that are configured to further guide the one or more electron beams from the one or more extraction elements toward the selected picture element.**

**18. (New) The display device of claim 17, wherein**

**each picture element includes a plurality of sub-pixels, and**

**one or more of the post-selection elements are configured to guide the one or more electron beams to a select sub-pixel of the plurality of sub-pixels of the selected picture element.**

Appl. No. 10/506,840  
Amendment and/or Response  
Reply to Office action of 6 April 2006

Page 7 of 10

19. (New) The display device of claim 15, wherein  
the slalom guide includes a plurality of slalom electrodes that extend in a  
direction substantially perpendicular to the display screen.
20. (New) The display device of claim 19, wherein  
the one or more extraction elements extend in a direction substantially parallel  
to the display screen.